SFP
Servi Fluid Power

HYDRAULIC ACCUMULATORS

SERVI FLUID POWER, INC.

GLOBAL RESOURCE FOR HYDRAULIC ACCUMULATORS

Servi Fluid Power Inc.

Servi Fluid Power, Inc. was formed in 2014 to provide the design, assembly and service of bladder accumulators including high and low pressure customized designs to suite variety of applications. Additionally, Servi Fluid Power, Inc. offers highly engineered solutions for custom Piston Accumulators.

Markets include but not limited to:

- **Oil / Gas • Marine • Industrial • Mobile • Renewable**

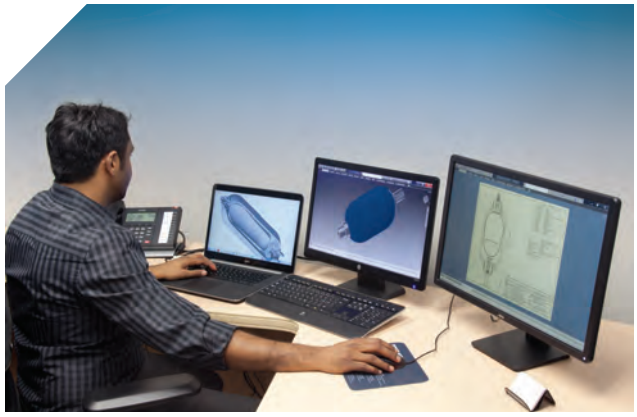
Applications include but not limited to:

- **Energy storage • Shock Absorption**
- **Pulsation Dampening • Thermal Expansion**
- **Suction Stabilizing**

Servi Fluid Power, Inc. product range

Expertise

Executives from the accumulator market have combined their hydraulic knowledge, technical expertise and history of providing quality service to form Servi Fluid Power, Inc. Servi Fluid Power, Inc. has amassed global industry experts with experience exceeding 25 years. The team consist of leading talent to include Assembly Technicians, Manufacturing Management, Quality Control, HSE, Supply Chain, Engineering, Commercial, Finance, and Executive Management. All team members have been specifically recruited based on their knowledge, respect and proven history in the business.



Custom product engineering solutions

Core Values

Integrity - Continue to build respectful relationships that cultivate trust and reliance on service quality.
Reliability - Competitive advantage to our customer through unparalleled quality and delivery performance.
Operational Excellence - Build best in class manufacturing, creating a continued pursuit improvement.
Innovation - Leading edge engineering support and collaboration with both the customer and supply partners.

Mission Statement

To provide value added solutions reducing costs, ensuring safety and improving performance for all integrated hydraulic systems . To create the standard in quality, process and innovation while remaining loyal to the commitment of service to the customer.

Optimized production

HYDRAULIC ACCUMULATORS

Accumulator Introduction

The hydro-pneumatic accumulator stores energy in the form of pressurized hydraulic fluid and releases to the hydraulic system when demanded either immediately or intermittently. A separator between the compressible dry inert gas such as nitrogen and incompressible hydraulic fluid allows the stored fluid to be discharged per the system requirements. The most common types of accumulators are Bladder type which uses bladder as a separator to store gas, Piston type which uses piston as a separator between the gas and fluid chamber and Diaphragm type which uses a diaphragm as a gas separator from hydraulic fluid. All three types of accumulators have their own advantages and limitations which should be considered when selecting for an application.

Design Features

Accumulator Shell

A bladder accumulator shell is forged from a chrome molybdenum high strength carbon steel material that is seamless with hemi head ends. They are designed and manufactured to ASME code material and design specifications. The pressure rating is based on a 4:1 safety factor exceeding the requirements of ASME code.

Bladder

The bladders are offered in several different material choices and operating temperatures to be compatible with various fluids and severe applications. Refer to the table on page 5 for the common choices for the bladders.

Bladder Accumulator Benefits

- Improve system performance and efficiency
- Reduce operation and maintenance costs
- Increase uptime and prolong system life expectancy
- Quick response time
- Contamination tolerant
- Safety, cannot be disassembled under pressure
- Lighter weight
- Recommended for water based or low lubricity fluids
- Field repairable
- Parts interchangeable with major brands.

Industries and Applications

Industries	Applications
Die Casting Machinery	High Pressure energy storage for rapid flow
Plastic Machinery	For quick response
Machine tools	Maintains pressure, reduces pump size
Automotive	Braking, Suspension, Transmission Systems
Chemical Industry	Reduce pump pulsations
Oil & Gas/Offshore	Emergency valve closing
Agriculture Machinery	Suspension systems
Wind Energy	Pitch Control and Braking

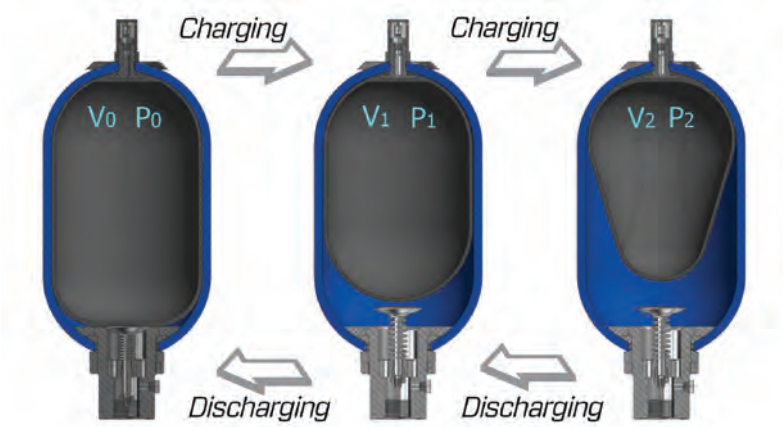
Accumulator Operating Principle - Typical Operation

The rubber bladder inside the pressure vessel is pre-charged with nitrogen gas as per the system requirements.

Stage 1 Accumulator is pre-charged with nitrogen gas based on the system requirements. During this stage, the hydraulic system pressure is lower than the pre-charge pressure.

Stage 2 The Hydraulic system is pressurized causing the fluid to enter the accumulator when the fluid pressure exceeds pre-charge pressure (Charging cycle).

Stage 3 The system pressure reaches to the maximum limit filling the accumulator to its maximum capacity. This is a fully charged state. When system pressure falls, the compressed nitrogen gas forces the fluid from the accumulator into the system until it reaches system minimum pressure (Discharge cycle). A typical accumulator function cycle is between stage 2 and stage 3 during operation.



Stage 1 *Stage 2* *Stage 3*

MODEL CODE CHART

Standard Product Model Code Chart

MODEL CODE																		
BA	01	-	03	-	NC	-	N	-	0	-	1	-	A	-	00	-	00

Accumulator Model	
Code	**Description**
BA	Bladder Accumulator Standard
BT	Bladder Accumulator Top Repairable
HF	High Flow Bottom Repairable
HT	High Flow Top Repairable
GB	Gas Bottle
TB	Transfer Barrier

Nominal Capacity	
Code	**Description**
1P	1 Pint
01	0.25 Gal
04	1 Gal
10	2.5 Gal
20	5 Gal
37	10 Gal
42	11 Gal
57	15 Gal

Pressure Rating	
Code	**Description**
02	2000 psi
03	3000 psi
04	4000 psi
05	5000 psi
60	6000 psi
06	6500 psi
10	10000 psi

Fluid Port Connection	
Code	**Description**
NC	3/4" NPT
ND	1" NPT
NE	1-1/4" NPT
NF	1-1/2" NPT
NG	2" NPT
SH	-12 SAE (1-1/16"-12 threads)
SJ	-16 SAE (1-5/16"-12 threads)
SK	-20 SAE (1-5/8"-12 threads)
SL	-24 SAE (1-7/8"-12 threads)
BC	G3/4" BSP
BD	G1-1/4" BSP
BH	G2"BSP
FA	2" Code 61
FB	1-1/2" Code 62
FC	1-1/4" CODE 61

External Coating (only when requested)	
Code	**Description**
BLANK	Primer only
01	Shell external coating (See Note 2)

Internal Coating (only when requested)	
Code	**Description**
BLANK	No Internal coating
01	Shell Internal Coating (See Note 2)

Certifications	
Code	**Description**
A	ASME
B	ASME + ABS
C	ASME + CRN
D	ASME+DNV
E	ASME+ABS+DNV
F	CE
G	ASME+CE
H	ASME+CE+ABS+DNV
J	ASME+CE+CRN+AS1210
K	ASME + AS1210

Material Option	
Code	**Description**
1	Carbon Steel Shell & Carbon Steel Trim
2	Carbon Steel Shell & Stainless Steel Trim
3	Stainless Steel Shell & Stainless Steel Trim
4	Nickel Plated Shell & Stainless Steel Trim

Service	
Code	**Description**
O	Oil Service
W	Water Service (Nickel Plated Shell)
F	Flushing per customer specification
T	Unit testing per customer requirement

Bladder Material	
Code	**Description**
N	Nitrile
C	Cold Weather Nitrile
T	Extreme Cold Weather Nitrile
F	Flouroelastomer (FKM)
B	Butyl
E	EPR
H	Hydrin

Notes:

1. Model Code combinations contain non standard options. Not all combinations are available, Please consult factory for information and availability.

2. The code designator for external and internal coding is a sequential number specific to each customer and paint system. Please consult factory for additional details.

BLADDER DETAILS

Bladder Compounds and Operating Temperatures

Rubber Compound	Operating Temp Range	General Fluid Compatibility
Standard Nitrile (NBR)	-20°F thru 220°F -29°C thru 104°C	Compatible with most standard petroleum based hydraulic oils.
Low Temperature Nitrile	-50°F thru 200°F -45°C thru 93°C	Compatible with most standard petroleum based hydraulic oils.
Extreme Low Temp Nitrile	-65°F thru 200°F -54°C thru 93°C	Compatible with most standard petroleum based hydraulic oils.
Ethylene Propylene (EPR)	-55°F thru 330°F -48°C thru 166°C	Compatible with most phosphate esters
Butyl (IIR)	-45°F thru 200°F -42°C thru 93°C	Compatible with most phosphate esters
Fluoroelastomer (FKM)	0°F thru 350°F -17°C thru 176°C	Compatible with most petroleum based fluids at high temperatures and some special fluids
Epichlorohydrin (ECO)	-40°F thru 275°F -40°C thru 135°C	Compatible with most standard petroleum based hydraulic oils.

** Information is for reference purpose only. Consult factory for fluid compatibility or refer to fluid manufacturers recommendations.*

Bladder Design Criteria

Chemical Compatibility:
ASTM D-471
ISO-1817

Gas Permeability:
ASTM 1434-82 (2003) PROCEDURE V
ISO-2782-1995

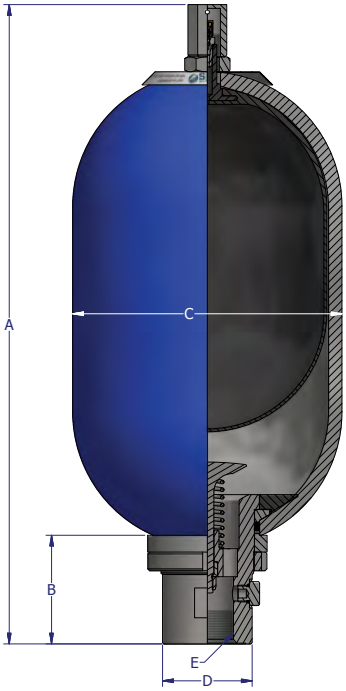
Operating Temperature Range:
ASTM D-1053-92a(07)
ISO-812

Mechanical/Physical Properties:
ASTM D-412, D-624
ISO-37, ISO34-2, ISO-4649.

- Tested and qualified for severe applications
- Superior permeation resistance of Nitrogen gas
- Optimized compound mix for improved physical properties
- Excellent resistance to high and low temperatures
- Available in several compounds to suit variety of fluids and operating temperatures
- Excellent shelf life
- Special compounds and sizes available to suite various applications

SFP
Servi Fluid Power

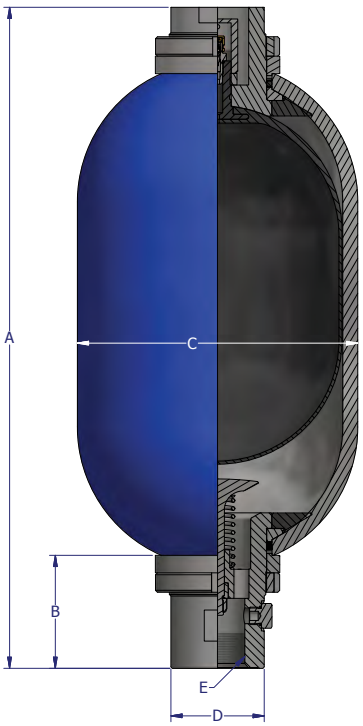
3000 PSI Series



Bottom Repairable 3000 psi (207 Bar)

Size		Gas Volume	Dimensions In. (mm)				Port Thread [E]		Weight
Gal.	Liters	Cu.In (Liters)	A	B	C	D	SAE	(F)NPT	Lbs (Kg)
1 Pint	0.5	30	10	2.1	3.50	1.25	1-1/16"-12UN	3/4"	6
		(30)	(254)	(53)	(89)	(32)	SAE # 12		(2.7)
1 QT	1	66	11.5	2.1	4.5	1.62	1-5/16"-12UN	1"	10
		(1)	(292)	(53.3)	(114)	(41.1)	SAE # 16		(4.5)
1	4	228	17	3.5	6.67	2.37	1-5/8"-12UN	1-1/4"	34
		(3.75)	(432)	(89)	(169)	(60)	SAE # 20		(15.4)
2.5	10	560	21	3.5	9.06	3.0	1-7/8"-12UN	2"	80
		(9.2)	(534)	(89)	(230)	(76)	SAE # 24		(36.5)
5	20	1126	33.5	3.5	9.06	3.0	1-7/8"-12UN	2"	120
		(18.5)	(851)	(89)	(230)	(76)	SAE # 24		(54.5)
10	37	2110	54	3.5	9.06	3.0	1-7/8"-12UN	2"	220
		(34.6)	(1372)	(89)	(230)	(76)	SAE # 24		(100)
11	42	2390	59.5	3.5	9.06	3.0	1-7/8"-12UN	2"	240
		(39.3)	(1511)	(89)	(230)	(76)	SAE # 24		(109)
15	57	3300	77.5	3.5	9.06	3.0	1-7/8"-12UN	2"	305
		(54.3)	(1969)	(89)	(230)	(76)	SAE # 24		(139)

*1 Quart and above are supplied with ASME certification as standard.



Top Repairable 3000 psi (207 Bar)

Size		Gas Volume	Dimensions In. (mm)				Port Thread [E]		Weight
Gal.	Liters	Cu.In (Liters)	A	B	C	D	SAE	(F)NPT	Lbs (Kg)
2.5	10	540	20.5	3.5	9.06	3.0	1-7/8"-12UN	2"	90
		(8.8)	(521)	(89)	(230)	(76)	SAE # 24		(41)
5	20	1106	33	3.5	9.06	3.0	1-7/8"-12UN	2"	125
		(18.2)	(838)	(89)	(230)	(76)	SAE # 24		(57)
10	37	2090	53.5	3.5	9.06	3.0	1-7/8"-12UN	2"	225
		(34.4)	(1359)	(89)	(230)	(76)	SAE # 24		(102)
11	42	2370	59	3.5	9.06	3.0	1-7/8"-12UN	2"	245
		(39)	(1499)	(89)	(230)	(76)	SAE # 24		(111)
15	57	3280	77	3.5	9.06	3.0	1-7/8"-12UN	2"	310
		(53.9)	(1956)	(89)	(230)	(76)	SAE # 24		(141)

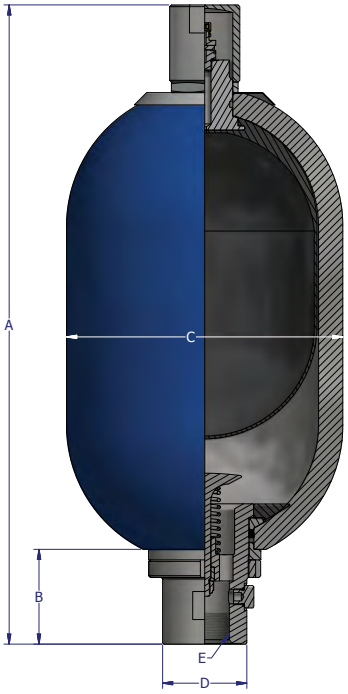
* Above accumulators can be rated to 4000 psi according to ASME Appendix 22

Special Fluid Port Options

Size	Thread Code	Split Flange	Thread Code	BSPP Thread
1 Gal.	FC	1-1/4" Code 61	BE	1-1/4" BSP
2.5-15 Gal.	FA	2" Code 61	BH	2"BSP
2.5-15 Gal.	FB	1-1/2" Code 62	BC	3/4" BSP

Refer to Model Code Chart on page 4 for Part Numbers and Ordering

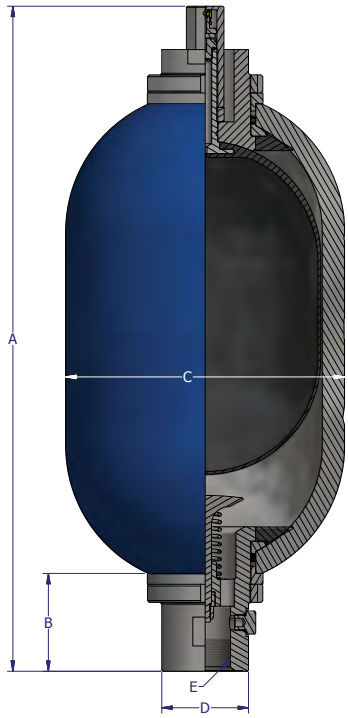
BLADDER ACCUMULATORS



Bottom Repairable 5000 psi (345 Bar)

Size		Gas Volume	Dimensions In. (mm)				Port Thread [E]		Weight
Gal.	Liters	Cu.In (Liters)	A	B	C	D	SAE	(F)NPT	Lbs (Kg)
2.5	10	560	23	3.62	9.56	3.0	1-7/8"-12UN	2"	120
		(9.2)	(584)	(92)	(243)	(76)	SAE # 24		(54.5)
5	20	1126	35	3.62	9.56	3.0	1-7/8"-12UN	2"	220
		(18.5)	(889)	(92)	(243)	(76)	SAE # 24		(100)
10	37	2110	55.75	3.62	9.56	3.0	1-7/8"-12UN	2"	340
		(34.6)	(1416)	(92)	(243)	(76)	SAE # 24		(154.5)
15	57	3300	78.75	3.62	9.56	3.0	1-7/8"-12UN	2"	490
		(54.3)	(2000)	(92)	(243)	(76)	SAE # 24		(223)

Above accumulators can be rated to 6500 psi according to ASME Appendix 22



Top Repairable 5000 psi (345 Bar)

Size		Gas Volume	Dimensions In. (mm)				Port Thread [E]		Weight
Gal.	Liters	Cu.In (Liters)	A	B	C	D	SAE	(F)NPT	Lbs (Kg)
2.5	10	540	23.25	3.62	9.56	3.0	1-7/8"-12UN	2"	120
		(8.8)	(591)	(92)	(243)	(76)	SAE # 24		(54.5)
5	20	1106	35.25	3.62	9.56	3.0	1-7/8"-12UN	2"	220
		(18.2)	(895)	(92)	(243)	(76)	SAE # 24		(100)
10	37	2090	56	3.62	9.56	3.0	1-7/8"-12UN	2"	340
		(34.4)	(1422)	(92)	(243)	(76)	SAE # 24		(154.5)
15	57	3280	79	3.62	9.56	3.0	1-7/8"-12UN	2"	490
		(53.9)	(2006)	(92)	(243)	(76)	SAE # 24		(223)

* Above accumulators can be rated to 6500 psi according to ASME Appendix 22

Special Fluid Port Options

Size	Thread Code	Split Flange	Thread Code	BSPP Thread
2.5-15 Gal.	FB	1-1/2" Code 62	BH	2" BSP

Refer to Model Code Chart on page 4 for Part Numbers and Ordering

CROSS-REFERENCE LIST
BLADDER ACCUMULATORS

Bladder Accumulator Part Number Cross Reference

3000 PSI Bottom Repairable, Nitrile, SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
1 Pint	BA1P-03-SH-N-0-1	N/A	N/A	1PT-100-3	BA001B3T01A1	N/A
1 Quart	BA01-03-SJ-N-0-1-A *SAE (-16) Port*	A1QT31003 *SAE (-12) Port*	SB330-1A1/112S-210C *SAE (-12 Port)*	1QT-100-3 *SAE (-16) Port*	BA002B3T01A1 *SAE (-12) Port*	TBR30-.2NMD *SAE (-20) Port*
1 Gal	BA04-03-SK-N-0-1-A	A131003	SB330-4A1/112S-210C	1-100-6	BA01B3T01A1	TBR30-1NMEA
2.5 Gal	BA10-03-SL-N-0-1-A	A2.531003	SB330-10A1/112S-210C	2.5-100-6	BA02B3T01A1	TBR30-2.5NMFA
5 Gal	BA20-03-SL-N-0-1-A	A531003	SB330-20A1/112S-210C	5-100-6	BA05B3T01A1	TBR30-5NMFA
10 Gal	BA37-03-SL-N-0-1-A	A1031003	SB330-32A1/112S-210C	10-100-6	BA10B3T01A1	TBR30-10NMFA
11 Gal	BA42-03-SL-N-0-1-A	A1131003	SB330-42A1/112S-210C	11-100-6	BA11B3T01A1	TBR30-11NMFA
15 Gal	BA57-03-SL-N-0-1-A	A1531003	SB330-54A1/112S-210C	15-100-6	BA15B3T01A1	TBR30-15NMFA

3000 PSI Bottom Repairable, Nitrile, NPT fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
1 PT	BA1P-03-NC-N-0-1	N/A	N/A	1PT-100-1	BA001B3U01A1	N/A
1 QT	BA01-03-ND-N-0-1-A	A1QT3100	SB330-1A1/112S-210D	1QT-100-1	BA002B3U01A1	TBR30-.2NM6
1 G	BA04-03-NE-N-0-1-A	A13100	SB330-4A1/112S-210D	1-100-1	BA01B3U01A1	TBR30-1NMCA
2.5 Gal	BA10-03-NG-N-0-1-A	A2.53100	SB330-10A1/112S-210D	2.5-100-2	BA02B3U01A1	TBR30-2.5NMAA
5 Gal	BA20-03-NG-N-0-1-A	A53100	SB330-20A1/112S-210D	5-100-2	BA05B3U01A1	TBR30-5NMAA
10 Gal	BA37-03-NG-N-0-1-A	A103100	SB330-32A1/112S-210D	10-100-2	BA10B3U01A1	TBR30-10NMAA
11 Gal	BA42-03-NG-N-0-1-A	A113100	SB330-42A1/112S-210D	11-100-2	BA11B3U01A1	TBR30-11NMAA
15 Gal	BA57-03-NG-N-0-1-A	A153100	SB330-54A1/112S-210D	15-100-2	BA15B3U01A1	TBR30-15NMAA

3000 PSI Bottom Repairable, Nitrile, Code 61 SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
1 Gal	BA04-03-FC-N-0-1-A	A131004	SB330-4A1/112S-210G	1-100-61	BA01B3F01A1	N/A
2.5 Gal	BA10-03-FA-N-0-1-A	A2.531004	SB330-10A1/112S-210E	2.5-100-61	BA02B3F01A1	
5 Gal	BA20-03-FA-N-0-1-A	A531004	SB330-20A1/112S-210E	5-100-61	BA05B3F01A1	
10 Gal	BA37-03-FA-N-0-1-A	A1031004	SB330-32A1/112S-210E	10-100-61	BA10B3F01A1	
11 Gal	BA42-03-FA-N-0-1-A	A1131004	SB330-42A1/112S-210E	11-100-61	BA11B3F01A1	
15 Gal	BA57-03-FA-N-0-1-A	A1531004	SB330-54A1/112S-210E	15-100-61	BA15B3F01A1	

3000 PSI Bottom Repairable, Nitrile, Code 62 SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BA10-03-FB-N-0-1-A	N/A	SB330-10A1/112S-210F	2.5-100-62	N/A	N/A
5 Gal	BA20-03-FB-N-0-1-A		SB330-20A1/112S-210F	5-100-62		
10 Gal	BA37-03-FB-N-0-1-A		SB330-32A1/112S-210F	10-100-62		
11 Gal	BA42-03-FB-N-0-1-A		SB330-42A1/112S-210F	11-100-62		
15 Gal	BA57-03-FB-N-0-1-A		SB330-54A1/112S-210F	15-100-62		

3000 PSI Top Repairable, Nitrile, SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-03-SL-N-0-1-A	A2.5TR31003	SB330-TR-10A1/112S-210C	T2.5-100-6	BA02T3T01A1	TBRT30-2.5NMFA
5 Gal	BT20-03-SL-N-0-1-A	A5TR31003	SB330-TR-20A1/112S-210C	T5-100-6	BA05T3T01A1	TBRT30-5NMFA
10 Gal	BT37-03-SL-N-0-1-A	A10TR31003	SB330-TR-32A1/112S-210C	T10-100-6	BA10T3T01A1	TBRT30-10NMFA
11 Gal	BT42-03-SL-N-0-1-A	A11TR31003	SB330-TR-42A1/112S-210C	T11-100-6	BA11T3T01A1	TBRT30-11NMFA
15 Gal	BT57-03-SL-N-0-1-A	A15TR31003	SB330-TR-54A1/112S-210C	T15-100-6	BA15T3T01A1	TBRT30-15NMFA

3000 PSI Top Repairable, Nitrile, NTP fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-03-NG-N-0-1-A	A2.5TR3100	SB330-TR-10A1/112S-210D	T2.5-100-2	BA02T3U01A1	TBRT30-2.5NMAA
5 Gal	BT20-03-NG-N-0-1-A	A5TR3100	SB330-TR-20A1/112S-210D	T5-100-2	BA05T3U01A1	TBRT30-5NMAA
10 Gal	BT37-03-NG-N-0-1-A	A10TR3100	SB330-TR-32A1/112S-210D	T10-100-2	BA10T3U01A1	TBRT30-10NMAA
11 Gal	BT42-03-NG-N-0-1-A	A11TR3100	SB330-TR-42A1/112S-210D	T11-100-2	BA11T3U01A1	TBRT30-11NMAA
15 Gal	BT57-03-NG-N-0-1-A	A15TR3100	SB330-TR-54A1/112S-210D	T15-100-2	BA15T3U01A1	TBRT30-15NMAA

3000 PSI Top Repairable, Nitrile, SAE Code 61 fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-03-FA-N-0-1-A	A2.5TR31004	SB330-TR-10A1/112S-210E	T2.5-100-61	BA02T3F01A1	N/A
5 Gal	BT20-03-FA-N-0-1-A	A5TR31004	SB330-TR-20A1/112S-210E	T5-100-61	BA05T3F01A1	
10 Gal	BT37-03-FA-N-0-1-A	A10TR31004	SB330-TR-32A1/112S-210E	T10-100-61	BA10T3F01A1	
11 Gal	BT42-03-FA-N-0-1-A	A11TR31004	SB330-TR-42A1/112S-210E	T11-100-61	BA11T3F01A1	
15 Gal	BT57-03-FA-N-0-1-A	A15TR31004	SB330-TR-54A1/112S-210E	T15-100-61	BA15T3F01A1	

CROSS-REFERENCE LIST
BLADDER ACCUMULATORS

3000 PSI Top Repairable, Nitrile, SAE Code 62 fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-03-FB-N-0-1-A	N/A	SB330-TR-10A1/112S-210F	T2.5-100-62	N/A	N/A
5 Gal	BT20-03-FB-N-0-1-A		SB330-TR-20A1/112S-210F	T5-100-62		
10 Gal	BT37-03-FB-N-0-1-A		SB330-TR-32A1/112S-210F	T10-100-62		
11 Gal	BT42-03-FB-N-0-1-A		SB330-TR-42A1/112S-210F	T11-100-62		
15 Gal	BT57-03-FB-N-0-1-A		SB330-TR-54A1/112S-210F	T15-100-62		

5000 PSI Bottom Repairable, Nitrile, SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power [(a)]**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BA10-05-SL-N-0-1-A	A2.551003	SB600-10A1/112S-345C	G2.5-5-100-6	BA02B5T01A1	TBR50-2.5NMFA
5 Gal	BA20-05-SL-N-0-1-A	A551003	SB600-20A1/112S-345C	G5-5-100-6	BA05B5T01A1	TBR50-5NMFA
10 Gal	BA37-05-SL-N-0-1-A	A1051003	SB600-32A1/112S-345C	G10-5-100-6	BA10B5T01A1	TBR50-10NMFA
15 Gal	BA57-05-SL-N-0-1-A	A1551003	SB600-54A1/112S-345C	G15-5-100-6	BA15B5T01A1	TBR50-15NMFA

5000 PSI Bottom Repairable, Nitrile, NPT fluid port connection, Carbon Steel						
Size	**Servi Fluid Power [(a)]**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BA10-05-NG-N-0-1-A	A2.55100	SB600-10A1/112S-345D	G2.5-5-100-2	BA02B5U01A1	TBR50-2.5NMAA
5 Gal	BA20-05-NG-N-0-1-A	A55100	SB600-20A1/112S-345D	G5-5-100-2	BA05B5U01A1	TBR50-5NMAA
10 Gal	BA37-05-NG-N-0-1-A	A105100	SB600-32A1/112S-345D	G10-5-100-2	BA10B5U01A1	TBR50-10NMAA
15 Gal	BA57-05-NG-N-0-1-A	A155100	SB600-54A1/112S-345D	G15-5-100-2	BA15B5U01A1	TBR50-15NMAA

5000 PSI Bottom Repairable, Nitrile, SAE CODE 62 fluid port connection, Carbon Steel						
Size	**Servi Fluid Power [(a)]**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BA10-05-FB-N-0-1-A	A2.551004	SB600-10A1/112S-345F	G2.5-5-100-62	BA02B5F01A1	N/A
5 Gal	BA20-05-FB-N-0-1-A	A551004	SB600-20A1/112S-345F	G5-5-100-62	BA05B5F01A1	
10 Gal	BA37-05-FB-N-0-1-A	A1051004	SB600-32A1/112S-345F	G10-5-100-62	BA10B5F01A1	
15 Gal	BA57-05-FB-N-0-1-A	A1551004	SB600-54A1/112S-345F	G15-5-100-62	BA15B5F01A1	

(a) - 5000 PSI Bottom Repairable Accumulators gas valve stem is 2" diameter.

5000 PSI Bottom Repairable, Nitrile, SAE fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-05-SL-N-0-1-A	A2.5TR51003	SB600-TR-10A1/112S-345C	T2.5-5-100-6	BA02T5T01A1	TBRT50-2.5NMFA
5 Gal	BT20-05-SL-N-0-1-A	A5TR51003	SB600-TR-20A1/112S-345C	T5-5-100-6	BA05T5T01A1	TBRT50-5NMFA
10 Gal	BT37-05-SL-N-0-1-A	A10TR51003	SB600-TR-32A1/112S-345C	T10-5-100-6	BA10T5T01A1	TBRT50-10NMFA
15 Gal	BT57-05-SL-N-0-1-A	A15TR51003	SB600-TR-54A1/112S-345C	T15-5-100-6	BA15T5T01A1	TBRT50-15NMFA

5000 PSI Top Repairable, Nitrile, NPT fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-05-NG-N-0-1-A	A2.5TR5100	SB600-TR-10A1/112S-345D	T2.5-5-100-2	BA02T5U01A1	TBRT50-2.5NMAA
5 Gal	BT20-05-NG-N-0-1-A	A5TR5100	SB600-TR-20A1/112S-345D	T5-5-100-2	BA05T5U01A1	TBRT50-5NMAA
10 Gal	BT37-05-NG-N-0-1-A	A10TR5100	SB600-TR-32A1/112S-345D	T10-5-100-2	BA10T5U01A1	TBRT50-10NMAA
15 Gal	BT57-05-NG-N-0-1-A	A15TR5100	SB600-TR-54A1/112S-345D	T15-5-100-2	BA15T5U01A1	TBRT50-15NMAA

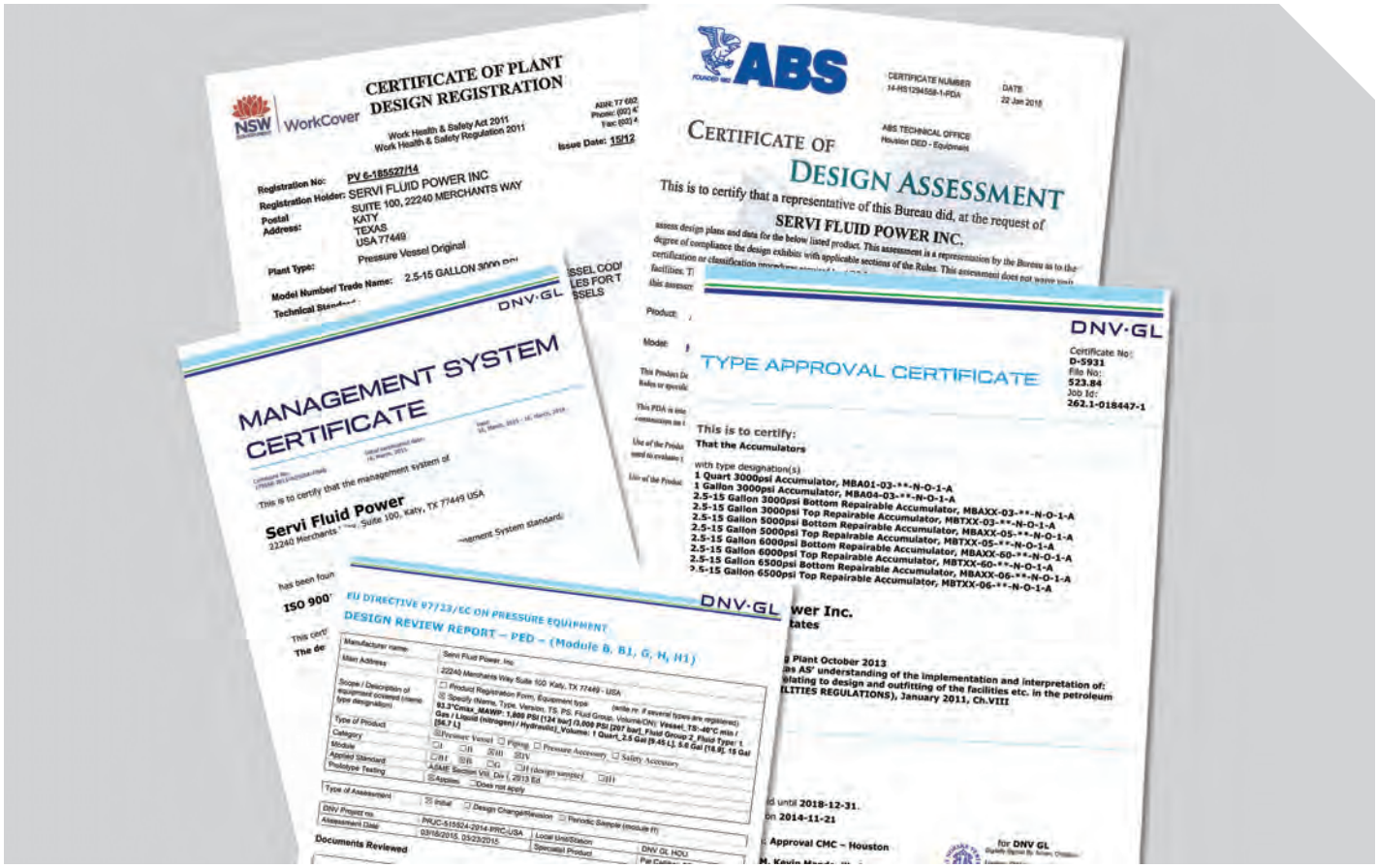
5000 PSI Top Repairable, Nitrile, SAE CODE 62 fluid port connection, Carbon Steel						
Size	**Servi Fluid Power**	**Accumulators Inc.**	**Hydac**	**Olaer**	**Parker**	**Tobul**
2.5 Gal	BT10-05-FB-N-0-1-A	A2.5TR51004	SB600-TR-10A1/112S-345F	T2.5-5-100-62	BA02T5F01A1	N/A
5 Gal	BT20-05-FB-N-0-1-A	A5TR51004	SB600-TR-20A1/112S-345F	T5-5-100-62	BA05T5F01A1	
10 Gal	BT37-05-FB-N-0-1-A	A10TR51004	SB600-TR-32A1/112S-345F	T10-5-100-62	BA10T5F01A1	
15 Gal	BT57-05-FB-N-0-1-A	A15TR51004	SB600-TR-54A1/112S-345F	T15-5-100-62	BA15T5F01A1	

Disclaimer:

1. The part number(s) suggested in this cross-reference list represent the closest Servi Fluid Power, Inc. equivalent based on competitors published information and may not reflect competitor changes.
2. Information is for reference purpose only. Please consult factory for detailed specifications.
3. Model codes listed are for standard options only. For other available options, please consult factory.
4. Please consult factory for items listed as N/A for further details.

CERTIFICATIONS

Servi Fluid Power, Inc. shall have quantifiable goals for their quality work and delivery precision, and strive for continuous improvement. All our companies shall have clearly documented procedures for their activities, and work continuously at making the procedures better and more efficient. Through information and training, we shall ensure that all employees have a high level of quality consciousness. Servi Fluid Power, Inc. is certified according to the Quality Management System ISO 9001:2008.



- **CE/PED** – Europe
- **CRN** – All provinces in Canada
- **AS1210** – Australia
- **ASME** – Americas
- **DNV** – Type Approval available
- **ABS** – Product Design Approval available
- **BV** – Type Approval available
- **NR13** – Brazil
- **TR CU** – Russia
- **SELO** – China

- Consult factory for any other certifications.

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